ABSTRACT OF THE DISCLOSURE

A gas separator for separating a specific gas from a mixed gas comprises an outer casing, a rotating body disposed inside the casing, the rotating body being composed of a plurality of fan-shaped blocks arranged in a circumferential direction thereof and a drive member mounted to the casing and adapted to drive the rotating body to be rotatable in a predetermined direction. A gas absorption/releasing material is applied to inner surfaces of the blocks and adapted to absorb and release a specific gas from a mixed gas depending on different temperature zones, and the central portion of the rotating body is formed as a hollow static portion, which is divided by a separation plate thereby to form two introducing paths through which temperature adjusting fluids having different temperatures pass. The rotating body is formed with first and second flow paths formed independently from each other, said first flow path being provided with the gas absorption/releasing material, and fluids of different temperatures depending on a rotating position of the rotating body are fed through said second flow path so that a heat is transmitted between the first and the second flow paths.

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